State of Wisconsin
Department of Natural Resources
Bureau of Air Management
P.O. Box 7921, Madison WI 53707-7921
dnr.wi.gov

Air Operation Permit Compliance Certification

Form 4530-170 (R 4/06)

Notice: Under ss. NR 407.09(4)(a)3. and 439.03(1)(c), Wis. Adm. Code, all sources issued an air operation permit by the Wisconsin Department of Natural Resources must submit an annual (or more frequent) certification of compliance with all operation permit terms and conditions over the reporting period specified in the permit. You may use this form to submit your compliance certification to the Department, and to EPA Region V. Please note that compliance certifications must be signed by a responsible official, as defined in NR 400.02(136), Wis. Adm. Code. Please retain records and all other material information used to certify compliance with your air operation permit for Department review. Use of this Form is voluntary. Personally identifiable information collected on this Form is unlikely to be used for any purpose other than that for which it was originally collected, but may be provided to requesters as required by Wisconsin's Open Records law (ss. 19.31-19.39, Wis. Stats.).

A.) Facility Information

1) Facility Name Atlas Resin Proppants LLC

2) FID:627005280

3) a. Permit Number 07-JAJ-042 | b. Permit Issue Date January 19th, 2010

4) Reporting Period Covered by this Certification January 1, 2010 – December 31, 2010

5) FOR PART 70 SOURCES ONLY:

All Part-70 sources must also submit a copy of the compliance certification to the US EPA-Region V, in addition to the appropriate WDNR regional field office. Addresses are listed in your Part-70 air permit. Please check the following box, if applicable to your facility:

X A copy of the Compliance Certification has been submitted to US EPA-Region V.

B.) Facility Compliance Information

6) Check either (a) "CONTINUOUS COMPLIANCE" or (b) "INTERMITTENT COMPLIANCE" below
(Terms "continuous" and "intermittent" compliance are defined in Instructions, page 3 of 4).

a)__X___ **Facility Was in Continuous Compliance** (During the entire reporting period identified in this compliance certification, this facility was in **continuous** compliance with **all** conditions specified in the permit identified in this compliance certification. The method used to determine compliance for each condition is the method specified in the permit identified in this compliance certification)

b)_____ **Facility Was in Intermittent Compliance** (During the entire reporting period identified in this compliance certification, this facility was in continuous compliance with **all** conditions specified in the permit identified in this compliance certification, **EXCEPT** for the deviations identified on the attached deviation report. The method used to determine compliance for each condition is the method specified in the permit identified in this compliance certification, unless otherwise indicated and described in the enclosed deviation report.)

NOTE: If you select this option, you must complete and attach the Air Operation Permit Deviation Summary Report, in which you list deviations from any conditions of the permit for the reporting period covered by this Compliance Certification.

C.) Alternative Permit Requirements

In certain circumstances where the underlying applicable requirement allows, permits may include a choice of limits and/or standards, alternate operating scenarios, alternate monitoring methods, alternate recordkeeping, and the like. Where the permit includes such options or alternate requirements, the source must specifically identify the permit terms and conditions which applied over the entire reporting period. Many federal MACT standards provide a choice of emission standards and associated monitoring requirements. For example, the pulp and paper MACT (40 CFR part 63 subpart S) requires certain control devices to either reduce total hazardous air pollutant emissions by weight, or by volume, or through the use of a thermal oxidizer operating under certain parameters, or through other specified means.

7) If the facility operated under alternative permit requirements for all or part of the reporting period covered by this compliance certification, please identify the permit condition that describes the alternative permit requirements, list the emission unit operated according to these requirements, and list the begin and end dates during which the emission unit was operated according to these requirements: (Add additional pages if necessary)

a) Permit Condition Reference:	b) Emission Unit:	c) Alternative Requirement Begin and End Date:

D.) Facility Compliance Certification

NOTE: A responsible official, **as defined in s. NR 400.02 (136), Wis. Adm. Code**, must sign this compliance certification. Compliance certifications that are not signed by a responsible official will be returned as incomplete.

I have reviewed this facility's compliance status with respect to *ALL* air operation permit conditions for the reporting period specified in this compliance certification. Based on information and belief formed after reasonable inquiry, I certify that the statements and information in this document are true, accurate and complete.

_____
Signature of Responsible Official

_Erica Grant_____
Typed or Printed Name of Signatory

_ Production Manager__
Title

____/_____/_____
Date

For questions concerning compliance certification, contact your regional compliance engineer by phone, via email, or via facsimilie.

State of Wisconsin
Department of Natural Resources
Bureau of Air Management
P.O. Box 7921, Madison WI 53707-7921
dnr.wi.gov

Air Operation Permit Compliance Certification

Form 4530-170 (R 4/06)

Notice: Under ss. NR 407.09(4)(a)3. and 439.03(1)(c), Wis. Adm. Code, all sources issued an air operation permit by the Wisconsin Department of Natural Resources must submit an annual (or more frequent) certification of compliance with all operation permit terms and conditions over the reporting period specified in the permit. You may use this form to submit your compliance certification to the Department, and to EPA Region V. Please note that compliance certifications must be signed by a responsible official, as defined in NR 400.02(136), Wis. Adm. Code. Please retain records and all other material information used to certify compliance with your air operation permit for Department review. Use of this Form is voluntary. Personally identifiable information collected on this Form is unlikely to be used for any purpose other than that for which it was originally collected, but may be provided to requesters as required by Wisconsin's Open Records law (ss. 19.31-19.39, Wis. Stats.).

A.) Facility Information

1) Facility Name Atlas Resin Proppants LLC

2) FID:627005280

3) a. Permit Number 07-JAJ-042	b. Permit Issue Date January 19th, 2010

4) Reporting Period Covered by this Certification January 1, 2010 – June 30, 2010

5) FOR PART 70 SOURCES ONLY:

All Part-70 sources must also submit a copy of the compliance certification to the US EPA-Region V, in addition to the appropriate WDNR regional field office. Addresses are listed in your Part-70 air permit. Please check the following box, if applicable to your facility:

☐ A copy of the Compliance Certification has been submitted to US EPA-Region V.

B.) Facility Compliance Information

6) Check either (a) "CONTINUOUS COMPLIANCE" or (b) "INTERMITTENT COMPLIANCE" below
(Terms "continuous" and "intermittent" compliance are defined in Instructions, page 3 of 4).

a)__X___ **Facility Was in Continuous Compliance** (During the entire reporting period identified in this compliance certification, this facility was in **continuous** compliance with **all** conditions specified in the permit identified in this compliance certification. The method used to determine compliance for each condition is the method specified in the permit identified in this compliance certification)

b)_____ **Facility Was in Intermittent Compliance** (During the entire reporting period identified in this compliance certification, this facility was in continuous compliance with **all** conditions specified in the permit identified in this compliance certification, **EXCEPT** for the deviations identified on the attached deviation report. The method used to determine compliance for each condition is the method specified in the permit identified in this compliance certification, unless otherwise indicated and described in the enclosed deviation report.)

NOTE: If you select this option, you must complete and attach the Air Operation Permit Deviation Summary Report, in which you list deviations from any conditions of the permit for the reporting period covered by this Compliance Certification.

C.) Alternative Permit Requirements

In certain circumstances where the underlying applicable requirement allows, permits may include a choice of limits and/or standards, alternate operating scenarios, alternate monitoring methods, alternate recordkeeping, and the like. Where the permit includes such options or alternate requirements, the source must specifically identify the permit terms and conditions which applied over the entire reporting period. Many federal MACT standards provide a choice of emission standards and associated monitoring requirements. For example, the pulp and paper MACT (40 CFR part 63 subpart S) requires certain control devices to either reduce total hazardous air pollutant emissions by weight, or by volume, or through the use of a thermal oxidizer operating under certain parameters, or through other specified means.

7) If the facility operated under alternative permit requirements for all or part of the reporting period covered by this compliance certification, please identify the permit condition that describes the alternative permit requirements, list the emission unit operated according to these requirements, and list the begin and end dates during which the emission unit was operated according to these requirements: (Add additional pages if necessary)

a) Permit Condition Reference:	b) Emission Unit:	c) Alternative Requirement Begin and End Date:

D.) Facility Compliance Certification

NOTE: A responsible official, **as defined in s. NR 400.02 (136), Wis. Adm. Code**, must sign this compliance certification. Compliance certifications that are not signed by a responsible official will be returned as incomplete.

I have reviewed this facility's compliance status with respect to *ALL* air operation permit conditions for the reporting period specified in this compliance certification. Based on information and belief formed after reasonable inquiry, I certify that the statements and information in this document are true, accurate and complete.

_____
Signature of Responsible Official

_Erica Grant_____
Typed or Printed Name of Signatory

_ Production Manager__
Title

____/_____/_____
Date

For questions concerning compliance certification, contact your regional compliance engineer by phone, via email, or via facsimilie.

ATLAS RESIN PROPPANTS

COPY

Jeff Johnson
Air Management Compliance Officer
Wisconsin Department of Natural Resources
West Central Region Headquarters
1300 West Clairemont Ave.
P.O. Box 4001
Eau Claire, WI 54702-4001

01/21/11

Mr. Johnson,

This letter serves to certify our compliance with regard to Permit No. 627005280-P02 for our Taylor, WI manufacturing site. In accordance of Part 1, Item ZZZ, Number 3.a.(1) attached in Appendix A and B are a summary of our CAM Plan and monitoring data required by the permit for Tower A and Tower B respectively for the period of July 1 through December 31, 2010.

In accordance with Part 1, Item ZZZ, Number 3.a.(2) attached in Appendix C is our annual Certification of Compliance. A copy of this certification has been sent to US EPA as required.

As per your letter dated November 11, 2010, we have been operating under the granted variance for conditions I.E.1.b.(6) and I.J.1.b.(6) relating to processes P51 and P151 and control devices C50 and C150 (Permit #:627005280-P02). This variance has allowed us to operate the processes outside the specified 0 to 550 NTU range when running CRC product. Emissions stack testing was completed January 12, 2011, following procedures as listed under I.ZZZ.2 of the previously mentioned permit. At the time of this letter results of the test have not yet been received. We look forward to sharing the results with you sometime within the next couple weeks.

Another item to be noted relates to Table 2 for the Monitoring Approach for Scrubbers C50 and C150, Item II Indicator Range, Indicator #2 of our CAM Plan which states a required scrubber liquid flow of at least 45 gpm. We have had times when running our CRC product that our current ultrasonic flow meters have given a false reading of zero. When flow meters read zero, flow is verified by visual verification of liquid return to the sludge tank. This issue has been addressed with Tom Ponty during the August 24, 2010 WDNR site visit and we have budget plans in 2011 to implement his suggestion of recirculation pump motor power as a means to monitor flow measurements.

If you have any questions or care to discuss this report in more detail, please contact me at the number listed below.

Regards,

Erica Grant

Erica Grant
'roduction Manager
Atlas Resin Proppants, LLC – Taylor Plant

P.O. Box 100 • N7532 County Road P • Taylor, WI 54659 • (715) 662-2200 • FAX (715) 662-2424

ARP-Taylor01099

ATLAS RESIN
PROPPANTS

Appendix A

Atlas Resin Proppants, LLC
Taylor Manufacturing Plant

Tower A
CAM Plan Summary
Monitoring Data

Table 2
Monitoring Approach for Baghouse C20

	INDICATOR NO. 1
I. Indicator Measurement Approach	Pressure Drop Measure pressure drop across baghouse with Magnehelic 0-15" H_2O differential pressure gauge.
II. Indicator Range	Pressure drop across baghouse control device between 1 and 8 inches water column.
III. Performance Criteria	
A. Data Representativeness	Static pressure is measured at the baghouse inlet and exhaust. The accuracy of the device is +/- 2%.
B. Verification of Operational Status	Monitoring device maintained in accordance with the manufacturer's recommendations and calibrated at least once per year. Pressure taps checked daily for plugging.
C. QA/QC Practices and Criteria	Trained personnel collect and record data and calibrate monitor.
D. Monitoring Frequency	Once every 8 hours of operation
E. Data Collection Procedures	Results of pressure drop are recorded in log, "Environmental Controls Inspection."
F. Averaging Period	NA

© 2009 RMT, Inc. All rights reserved.

Table 2
Monitoring Approach for Scrubber C50

	INDICATOR NO. 1	INDICATOR NO. 2	INDICATOR NO. 3	INDICATOR NO. 4
I. Indicator	Pressure Drop	Scrubber Liquid Flow	Scrubber Liquid pH	Scrubber Liquid Turbidity
Measurement Approach	Measure pressure drop across scrubber and demister with Capsuhelic 0-20" and Magnehelic 0-1" H_2O pressure gauges.	Measure flow to wet scrubber with Dynasonics Ultrasonic flowmeters.	Measure pH of wet scrubber absorbing liquid with a Thermo Orion 3 Star pH probe.	Measure turbidity recirculated scrubber liquid with Hach Model 2100 N and 2100 AN turbidimeters.
II. Indicator Range	Pressure drop across the scrubber and demister between 8 and 17 inches of H_2O.	Liquid flow of at least 45 gpm.*	pH between 9.5 and 10.2	NTUs less than 550.**
III. Performance Criteria				
A. Data Representativeness	The monitoring system consists of a differential pressure transducer, which compares the pressure in the duct prior to the venturi to the pressure in the duct following the demister. The accuracy of the scrubber gauge is +/- 3%, and +/- 2% for the demister gauge.	Flow is measured prior to spray nozzles following a gate valve. The accuracy of the device is +/- 3%. The repeatability of the device is +/- 1%.	The pH of a sample taken from the sludge tank is measured in the laboratory. The accuracy of the probe is +/- 0.002.	The turbidity of a sample taken from the sludge tank is measured in the laboratory. The accuracy of the device is +/- 2% for 0.01 NTU to 1,000 NTU. Repeatability +/- 1%.
B. Verification of Operational Status	Monitoring device maintained in accordance with the manufacturer's recommendations and calibrated at least once per year. Pressure taps checked daily for plugging.	Monitoring device maintained in accordance with the manufacturer's recommendations and calibrated as needed.	Monitoring device maintained in accordance with the manufacturer's recommendations and calibrated daily.	Monitoring device maintained in accordance with the manufacturer's recommendations. Primary calibration performed every 90 days. Secondary calibration performed daily.
C. QA/QC Practices and Criteria	Trained personnel perform collections. Equipment is calibrated according to manufacturer's recommendations. Liquid is drained when necessary.	Trained personnel perform collections. Equipment is calibrated according to manufacturer's recommendations.	Trained personnel perform collections. Equipment is calibrated according to manufacturer's recommendations and cleaned and drained monthly.	Trained personnel perform collections. Equipment is calibrated according to manufacturer's recommendations.
D. Monitoring Frequency	Once every 8 hours of operation.	Once every 8 hours of operation.	Once every 8 hours of operation.	Once every 8 hours of operation.
E. Data Collection Procedures	Results are recorded in log, "Environmental Controls Inspection."	Results are recorded in log, "Environmental Controls Inspection."	Results are recorded in log, "Environmental Controls Inspection."	Results are recorded in log, "Environmental Controls Inspection."
F. Averaging Period	NA	NA	NA	NA

*Due to foam issues when running CRC product, flowmeters will read zero. This has been addressed with Tom Ponty during Air Compliance Evaluation of August 24, 2010. Plans to incorporate his suggestion of reciculation pump motor power as a means to monitor flow measurements have been incorporated into 2011 plans.

**We are currently operating under the granted variance dated November 11, 2010. This variance allows us to operte the processes outside the specified 0 to 550 NTU range when running CRC product. Emissions stack testing was completed 01/12/11 with results not yet available at the time of this report submittal.

© 2009 RMT, Inc. All rights reserved.

ATLAS RESIN
PROPPANTS

Appendix B

Atlas Resin Proppants, LLC
Taylor Manufacturing Plant

Tower B
CAM Plan Summary
Monitoring Data

Table 2
Monitoring Approach for Baghouse C120

	INDICATOR NO. 1
I. **Indicator Measurement Approach**	Pressure Drop
	Measure pressure drop across baghouse with Magnehelic 0-15" H_2O differential pressure gauge.
II. **Indicator Range**	Pressure drop across baghouse control device between 1 and 8 inches water column.
III. **Performance Criteria**	
A. **Data Representativeness**	Static pressure is measured at the baghouse inlet and exhaust. The accuracy of the device is +/- 2%.
B. **Verification of Operational Status**	Monitoring device maintained in accordance with the manufacturer's recommendations and calibrated at least once per year. Pressure taps checked daily for plugging.
C. **QA/QC Practices and Criteria**	Trained personnel collect and record data and calibrate monitor.
D. **Monitoring Frequency**	Once every 8 hours of operation
E. **Data Collection Procedures**	Results of pressure drop are recorded in log, "Environmental Controls Inspection."
F. **Averaging Period**	NA

© 2009 RMT, Inc. All rights reserved.

Table 2
Monitoring Approach for Scrubber C150

	INDICATOR NO. 1	INDICATOR NO. 2	INDICATOR NO. 3	INDICATOR NO. 4
I. Indicator	Pressure drop	Scrubber Liquid Flow	Scrubber Liquid pH	Scrubber Liquid Turbidity
Measurement Approach	Measure pressure drop across scrubber and demister with Capsuhelic 0-20" and Magnehelic 0-1" H_2O pressure gauges.	Measure flow to scrubber with Dynasonics Ultrasonic flowmeters.	Measure pH of scrubber liquid with a Thermo Orion 3 Star pH probe.	Measure turbidity recirculated scrubber liquid with Hach Model 2100 N and 2100 AN turbidimeters.
II. Indicator Range	Pressure drop across the scrubber and demister between 8 to 17 inches.	Liquid flow of at least 45 gpm.*	pH between 9.5 and 10.2.	NTUs less than 550.**
III. Performance Criteria	The monitoring system consists of a differential pressure transducer, which compares the pressure in the duct prior to the venturi to the pressure in the duct following the demister. The accuracy of the scrubber gauge is +/- 3%, and +/- 2% for the demister gauge.	Flow is measured prior to spray nozzles following a gate valve. The accuracy of the device is +/- 3%. The repeatability of the device is +/- 1%.	The pH of a sample taken from the sludge tank is measured in the laboratory. The accuracy of the probe is +/- 0.002.	The turbidity of a sample taken from the sludge tank is measured in the laboratory. The accuracy of the device is +/- 2% for 0.01 NTU to 1,000 NTU. Repeatability +/- 1%.
A. Data Representativeness	Monitoring device maintained in accordance with the manufacturer's recommendations and calibrated at least once per year. Pressure taps checked daily for plugging.	Monitoring device maintained in accordance with the manufacturer's recommendations and calibrated as needed.	Monitoring device maintained in accordance with the manufacturer's recommendations and calibrated daily.	Monitoring device maintained in accordance with the manufacturer's recommendations. Primary calibration performed every 90 days. Secondary calibration performed daily.
B. Verification of Operational Status	Trained personnel perform collections. Equipment is calibrated according to manufacturer's recommendations. Liquid is drained when necessary.	Trained personnel perform collections. Equipment is calibrated according to manufacturer's recommendations.	Trained personnel perform collections. Equipment is calibrated according to manufacturer's recommendations and cleaned and drained monthly.	Trained personnel perform collections. Equipment is calibrated according to manufacturer's recommendations.
C. QA/QC Practices and	Once every 8 hours of operation.	Once every 8 hours of operation.	Once every 8 hours of operation.	Once every 8 hours of operation.
D. Monitoring Frequency	Results are recorded in log, "Environmental Control's Inspection."	Results are recorded in log, "Environmental Control's Inspection."	Results are recorded in log, "Environmental Control's Inspection."	Results are recorded in log, "Environmental Control's Inspection."
E. Data Collection Procedures	NA	NA	NA	NA
F. Averaging Period	NA	NA	NA	NA

© 2009 RMT, Inc. All rights reserved.

ATLAS RESIN
PROPPANTS

Appendix C

Atlas Resin Proppants, LLC
Taylor Manufacturing Plant

Certification of Compliance

State of Wisconsin
Department of Natural Resources
Bureau of Air Management
P.O. Box 7921, Madison WI 53707-7921
dnr.wi.gov

Air Operation Permit Compliance Certification
Form 4530-170 (R 4/06)

Notice: Under ss. NR 407.09(4)(a)3. and 439.03(1)(c), Wis. Adm. Code, all sources issued an air operation permit by the Wisconsin Department of Natural Resources must submit an annual (or more frequent) certification of compliance with all operation permit terms and conditions over the reporting period specified in the permit. You may use this form to submit your compliance certification to the Department, and to EPA Region V. Please note that compliance certifications must be signed by a responsible official, as defined in NR 400.02(136), Wis. Adm. Code. Please retain records and all other material information used to certify compliance with your air operation permit for Department review. Use of this Form is voluntary. Personally identifiable information collected on this Form is unlikely to be used for any purpose other than that for which it was originally collected, but may be provided to requesters as required by Wisconsin's Open Records law (ss. 19.31-19.39, Wis. Stats.).

A.) Facility Information

1) Facility Name Atlas Resin Proppants LLC

2) FID: 627005280

3) a. Permit Number 07-JAJ-042 | b. Permit Issue Date January 19th, 2010

4) Reporting Period Covered by this Certification January 1, 2010 -- December 31, 2010

5) FOR PART 70 SOURCES ONLY:

All Part-70 sources must also submit a copy of the compliance certification to the US EPA-Region V, in addition to the appropriate WDNR regional field office. Addresses are listed in your Part-70 air permit. Please check the following box, if applicable to your facility:

X A copy of the Compliance Certification has been submitted to US EPA-Region V.

B.) Facility Compliance Information

6) Check either (a) "CONTINUOUS COMPLIANCE" or (b) "INTERMITTENT COMPLIANCE" below
(Terms "continuous" and "intermittent" compliance are defined in Instructions, page 3 of 4).

a) __X__ **Facility Was in Continuous Compliance** (During the entire reporting period identified in this compliance certification, this facility was in **continuous** compliance with **all** conditions specified in the permit identified in this compliance certification. The method used to determine compliance for each condition is the method specified in the permit identified in this compliance certification)

b) _____ **Facility Was in Intermittent Compliance** (During the entire reporting period identified in this compliance certification, this facility was in continuous compliance with **all** conditions specified in the permit identified in this compliance certification, **EXCEPT** for the deviations identified on the attached deviation report. The method used to determine compliance for each condition is the method specified in the permit identified in this compliance certification, unless otherwise indicated and described in the enclosed deviation report.)

NOTE: If you select this option, you must complete and attach the Air Operation Permit Deviation Summary Report, in which you list deviations from any conditions of the permit for the reporting period covered by this Compliance Certification.

Air Operation Permit Compliance Certification
Form 4530-170 (R 4/06)

C.) Alternative Permit Requirements

In certain circumstances where the underlying applicable requirement allows, permits may include a choice of limits and/or standards, alternate operating scenarios, alternate monitoring methods, alternate recordkeeping, and the like. Where the permit includes such options or alternate requirements, the source must specifically identify the permit terms and conditions which applied over the entire reporting period. Many federal MACT standards provide a choice of emission standards and associated monitoring requirements. For example, the pulp and paper MACT (40 CFR part 63 subpart S) requires certain control devices to either reduce total hazardous air pollutant emissions by weight, or by volume, or through the use of a thermal oxidizer operating under certain parameters, or through other specified means.

7) If the facility operated under alternative permit requirements for all or part of the reporting period covered by this compliance certification, please identify the permit condition that describes the alternative permit requirements, list the emission unit operated according to these requirements, and list the begin and end dates during which the emission unit was operated according to these requirements: (Add additional pages if necessary)

a) Permit Condition Reference:	b) Emission Unit:	c) Alternative Requirement Begin and End Date:

D.) Facility Compliance Certification

NOTE: A responsible official, **as defined in s. NR 400.02 (136), Wis. Adm. Code**, must sign this compliance certification. Compliance certifications that are not signed by a responsible official will be returned as incomplete.

I have reviewed this facility's compliance status with respect to *ALL* air operation permit conditions for the reporting period specified in this compliance certification. Based on information and belief formed after reasonable inquiry, I certify that the statements and information in this document are true, accurate and complete.

Erica Grant
Signature of Responsible Official

Erica Grant
Typed or Printed Name of Signatory

Production Manager
Title

1/20/11
Date

For questions concerning compliance certification, contact your regional compliance engineer by phone, via email, or via facsimilie.

627005280 Atlas Resin Proppants, LLC
N7500 COUNTY ROAD P
TAYLOR

DNR Region: West Central
County: Jackson
SIC Code: 2899 -- CHEMICAL PREPARATIONS, NEC
NAICS Code: 325998 -- All Other Miscellaneous Chemical Product and Preparation Manufacturing

Constr Date:

 # Employees: 48
Area: 442134 ft2

UTM Zone: 15 **UTM X:** 649540 m **UTM Y:** 4911590 m

Dawn Tiffany
Facility Air Management Contact
7156622200
N7530 County Road P
Taylor WI 54659
dtiffany@atlasresinproppants.com

Robbie Sage
Facility Billing Contact
7156622200
P.O. Box 100
Taylor WI 54659
rsage@atlasresinproppants.com

Erica Grant
Facility Responsible Official
7156622200
PO Box 100
Taylor WI 54659
egrant@atlasresinproppants.com

JEFFERY JOHNSON
DNR Emission Inventory Contact
7158388387
1300 W CLAIREMT
EAU CLAIRE WI 54701
jeffery.johnson@wisconsin.gov

DEVICE AND PROCESS LIST

DEVICE ID > PROCESS ID	DEVICE CODE > PROCESS CODE	DEVICE NAME > PROCESS NAME	DEVICE CATEGORY > PROCESS DESCRIPTION
C114	FILTER	Panel Filter - Tower B	Fabric Filters
--> 01	CONTROLLING	Raw Silo1Bin Filter - Tower B	Used for collectors
C115	FILTER	Panel Filter - Tower B	Fabric Filters
--> 01	CONTROLLING	Raw Silo 2 Bin Filter - Tower B	Used for collectors
C119	COLLECTOR	Cyclone	Cyclone/Settling Chambers
--> 01	CONTROLLING	Cyclone - Tower B	Used for collectors
C120	BAGHOUSE	Baghouse - Tower B	Baghouse/Fabric Filter
--> 01	CONTROLLING	Baghouse	Used for collectors
C14	BAGHOUSE	Panel Filter	Baghouse/Fabric Filter
--> 00	CONTROLLING	Raw Silo 1 Bin Filter - Tower A	Used for collectors
C15	BAGHOUSE	Panel Filter	Baghouse/Fabric Filter
--> 00	CONTROLLING	Raw Silo 2 Bin Filter - Tower A	Used for collectors
C150	SCRUBBER	Wet Scrubber - Tower B	Wet Collection Systems
--> 01	CONTROLLING	Wet Scrubber - Tower B	Used for collectors
C19	CYCLONE	Cyclone - Tower A	Cyclone/Settling Chambers
--> 01	CONTROLLING		Used for collectors
C20	BAGHOUSE	Baghouse - Tower A	Baghouse/Fabric Filter
--> 00	CONTROLLING	Baghouse	Used for collectors
C22	FILTER	Raw Silo 3 Bin Filter - Tower A	Fabric Filters
--> 01	CONTROLLING	Raw Silo 3 Bin Filter	Used for collectors
C50	SCRUBBER	Wet Scrubber - Tower A	Wet Collection Systems
--> 00	CONTROLLING	Wet Scrubber	Used for collectors
F11	GENERIC	Rail Car Unloading - Tower A	Miscellaneous
--> 01	GENERIC	UnLoading	Generic Throughput Process
F111	GENERIC	Railcar Unloading - Tower B	Miscellaneous
--> 00	GENERIC	Railcar Unloading - Tower B	Generic Throughput Process
F161	GENERIC	Railcar Loading - Tower B	Miscellaneous
--> 00	GENERIC	Railcar Loading - Tower B	Generic Throughput Process
F61	GENERIC	Railcar Loading - Tower A	Miscellaneous
--> 01	GENERIC	Railcar Loading - Tower A	Generic Throughput Process
P113	GENERIC	Elevator 1 - Tower B	Miscellaneous
--> 00	GENERIC	Elevator #1 - Tower B	Generic Throughput Process
P114	SILO	Raw Silo 1 - Tower B	Miscellaneous
--> 01	GENERIC	Raw Silo #1B	Generic Throughput Process
P115	SILO	Raw Silo 2 - Tower B	Miscellaneous
--> 00	GENERIC	Raw Silo #2B	Generic Throughput Process
P116	CONVEYOR	Conveyor 1 - Tower B	Miscellaneous

--> 01	GENERIC	Conveyor 1-Tower B	Generic Throughput Process
P117	CONVEYOR	Elevator 2 - Tower B	Miscellaneous
--> 00	GENERIC	Elevator 2 B	Generic Throughput Process
P121	GENERIC	Day Tank - Tower B	Miscellaneous
--> 00	GENERIC	Day Tank - Tower B	Generic Throughput Process
P122	GENERIC	Weigh Hopper 1 - Tower B	Miscellaneous
--> 00	GENERIC	Weigh Hopper - Tower B	Generic Throughput Process
P123	PROCESS HEATER	Raw Material Heater - Tower B	Boiler/Furnace
--> 00	GENERIC	Combustion of fuels at atm pressure	Generic Throughput Process
P123A	GENERIC	Emissions from Heater - Tower B	Miscellaneous
--> 01	GENERIC	Heater Emissions - Tower B	Generic Throughput Process
P127	GENERIC	Elevator 3 - Tower B	Miscellaneous
--> 01	GENERIC	Elevator 3 - Tower B	Generic Throughput Process
P128	GENERIC	Resin Tank - Tower B	Miscellaneous
--> 01	GENERIC	Resin Tank - Tower B	Generic Throughput Process
P129	GENERIC	Weigh Hopper 2 - Tower B	Miscellaneous
--> 00	GENERIC	Weigh Hopper 2 - Tower B	Generic Throughput Process
P13	CONVEYOR	Elevator 1 - Tower A	Miscellaneous
--> 00	GENERIC	Elevator # 1	Generic Throughput Process
P14	SILO	Raw Silo 1 - Tower A	Miscellaneous
--> 00	GENERIC	Raw Silo #1	Generic Throughput Process
P141	SCREEN	Shaker Screen - Tower B	Miscellaneous
--> 00	GENERIC	Simplicity Screen	Generic Throughput Process
P142	GENERIC	Elevator 4 - Tower B	Miscellaneous
--> 00	GENERIC	Elevator 4 - Tower B	Generic Throughput Process
P143	SCREEN	Scalping Screen - Tower B	Miscellaneous
--> 01	GENERIC	Sweco	Generic Throughput Process
P144	COOLER	Product Cooler - Tower B	Miscellaneous
--> 0	GENERIC	Product Cooler - Tower B	Generic Throughput Process
P145	GENERIC	Elevator 5 - Tower B	Miscellaneous
--> 00	GENERIC	Elevator 5 - Tower B	Generic Throughput Process
P146	SILO	Finished Silo 1 - Tower B	Miscellaneous
--> 00	GENERIC	Finshed Silo 1 - Tower B	Generic Throughput Process
P147	SILO	Finished Silo 2 - Tower B	Miscellaneous
--> 01	GENERIC	Finsished Silo 2 - Tower B	Generic Throughput Process
P148	SILO	Finished Silo 3 - Tower B	Miscellaneous
--> 01	GENERIC	Finished Silo 3 - Tower B	Generic Throughput Process
P15	SILO	Raw Silo 2 - Tower A	Miscellaneous
--> 00	GENERIC	Raw Silo #2	Generic Throughput Process
P151	GENERIC	Batch Mixer - Tower B	Miscellaneous
--> 00	GENERIC	Batch Mixer	Generic Throughput Process

--> 01	GENERIC	Ammonia	Generic Throughput Process
P152	GENERIC	Continuous Mixer - Tower B	Miscellaneous
--> 00	GENERIC	Continuous Mixer - Tower B	Generic Throughput Process
--> 01	GENERIC	Ammonia	Generic Throughput Process
P16	CONVEYOR	Conveyor 1 - Tower A	Miscellaneous
--> 00	GENERIC	Conveyors #1	Generic Throughput Process
P161	CONVEYOR	Conveyor 2 - Tower B	Miscellaneous
--> 01	GENERIC	Conveyor 2 - Tower B	Generic Throughput Process
P163	CONVEYOR	Weigh Belt - Tower B	Miscellaneous
--> 00	GENERIC	Weigh Belt - Tower B	Generic Throughput Process
P17	CONVEYOR	Elevator 2 - Tower A	Miscellaneous
--> 00	GENERIC	Elevator #2	Generic Throughput Process
P21	GENERIC	Day Tank 1 - Tower A	Miscellaneous
--> 01	GENERIC	Day Tank	Generic Throughput Process
P22	SILO	Raw Silo 3 - Tower A	Miscellaneous
--> 02	GENERIC	Raw Silo 3	Generic Throughput Process
P23	GENERIC	Weigh Hopper 1 - Tower A	Miscellaneous
--> 01	GENERIC	Weigh Hopper 1	Generic Throughput Process
P24	PROCESS HEATER	Raw Material Heater - Tower A	Boiler/Furnace
--> 01	GENERIC	Combustion of fuels at atmospheric pressure	Generic Throughput Process
P24A	GENERIC	Dust Emissions from (P24) - Tower A	Miscellaneous
--> 01	GENERIC	Sand Heating	Generic Throughput Process
P27	GENERIC	Elevator 3 - Tower A	Miscellaneous
--> 01	GENERIC	Elevator 3	Generic Throughput Process
P28	GENERIC	Resin Tank - Tower A	Miscellaneous
--> 01	GENERIC	Resin Tank	Generic Throughput Process
P29	GENERIC	Weigh Hopper 2 - Tower A	Miscellaneous
--> 01	GENERIC	Resin Weigh Hopper	Generic Throughput Process
P41	SCREEN	Shaker Screen - Tower A	Miscellaneous
--> 01	GENERIC	Simplicity Screen	Generic Throughput Process
P42	GENERIC	Elevator 4 - Tower A	Miscellaneous
--> 01	GENERIC	Elevator #4	Generic Throughput Process
P43	SCREEN	Scalping Screen - Tower A	Miscellaneous
--> 01	GENERIC	Sweco Screen	Generic Throughput Process
P44	COOLER	Product Cooler - Tower A	Miscellaneous
--> 01	GENERIC	Cooling	Generic Throughput Process
P45	CONVEYOR	Conveyor 2 - Tower A	Miscellaneous
--> 01	GENERIC	Converyor #2	Generic Throughput Process
P46	GENERIC	Elevator 5 - Tower A	Miscellaneous
--> 01	GENERIC	Elevator #5	Generic Throughput Process

P47	SILO	Finished Silo 1 - Tower A	Miscellaneous
--> 01	GENERIC	Finished Silo #1	Generic Throughput Process
P48	SILO	Finished Silo 2 - Tower A	Miscellaneous
--> 00	GENERIC	Finish Silo #2	Generic Throughput Process
P49	GENERIC	Weigh Belt - Tower A	Miscellaneous
--> 01	GENERIC	Weigh Belt	Generic Throughput Process
P51	GENERIC	Batch Mixer - Tower A	Miscellaneous
--> 00	GENERIC	Ammonia	Generic Throughput Process
--> 01	GENERIC	Batch Mixer	Generic Throughput Process
P52	GENERIC	Continuous Mixer - Tower A	Miscellaneous
--> 00	GENERIC	Ammonia	Generic Throughput Process
--> 01	GENERIC	Continuous Mixer	Generic Throughput Process
P71	SILO	Finish Silo 3 - Tower A	Miscellaneous
--> 00	GENERIC	Finsh silo #3	Generic Throughput Process

EMISSION FLOW SUMMARY

F11-01 (100%) --> OUT
F111-00 (100%) --> OUT
F161-00 (100%) --> OUT
F61-01 (100%) --> OUT
P113-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P114-01 (100%) --> C114-01 (100%) --> S114-01 (100%) --> OUT
P115-00 (100%) --> C115-01 (100%) --> S115-01 (100%) --> OUT
P116-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P117-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P121-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P122-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P123-00 (100%) --> C119-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P123A-01 (100%) --> C119-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P127-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P128-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P129-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P13-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P14-00 (100%) --> C14-00 (100%) --> S14-00 (100%) --> OUT
P141-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P142-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P143-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P144-0 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P145-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P146-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P147-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P148-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P15-00 (100%) --> C15-00 (100%) --> S15-00 (100%) --> OUT
P151-00 (100%) --> C150-01 (100%) --> S150-01 (100%) --> OUT
P151-01 (100%) --> OUT
P152-00 (100%) --> C150-01 (100%) --> S150-01 (100%) --> OUT
P152-01 (100%) --> OUT
P16-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P161-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P163-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P17-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P21-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P22-02 (100%) --> C22-01 (100%) --> S22-01 (100%) --> OUT
P23-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P24-01 (100%) --> C19-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P24A-01 (100%) --> C19-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P27-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P28-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P29-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P41-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P42-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P43-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P44-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P45-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P46-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P47-01 (50%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P48-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P49-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P51-00 (100%) --> OUT
P51-01 (100%) --> C50-00 (100%) --> S50-00 (100%) --> OUT
P52-00 (100%) --> OUT
P52-01 (100%) --> C50-00 (100%) --> S50-00 (100%) --> OUT
P71-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

DEVICES/PROCESSES DETAILS

C114 **Fabric Filters** **Filter, Mat or Panel**

DEVICE DESC: Panel Filter - Tower B
CONSTR DATE:
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	90%
PM	90%

C114, Process 01 **Used for collectors**

PROCESS NAME: Raw Silo1Bin Filter - Tower B
PROCESS COMMENTS:
SCHEDULE: 12 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P114-01 (100%) --> C114-01

--OUTGOING STREAMS--
C114-01 (100%) --> S114-01
(100%) --> OUT

C115 **Fabric Filters** **Filter, Mat or Panel**

DEVICE DESC: Panel Filter - Tower B
CONSTR DATE:
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	90%
PM	90%

C115, Process 01 **Used for collectors**

PROCESS NAME: Raw Silo 2 Bin Filter - Tower B
PROCESS COMMENTS:
SCHEDULE: 12 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P115-00 (100%) --> C115-01

--OUTGOING STREAMS--
C115-01 (100%) --> S115-01 (100%) --> OUT

C119 **Cyclone/Settling Chambers Collector** **Mechanical**

DEVICE DESC: Cyclone
CONSTR DATE:
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	90%
PM	90%

C119, Process 01 **Used for collectors**

PROCESS NAME: Cyclone - Tower B
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P123A-01 (100%) --> C119-01

P123-00 (100%) --> C119-01

--OUTGOING STREAMS--
C119-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

C120 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: Baghouse - Tower B
CONSTR DATE:
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	99.7%
PM	99.7%

C120, Process 01 **Used for collectors**
PROCESS NAME: Baghouse
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
C119-01 (100%) --> C120-01

P113-00 (100%) --> C120-01

P116-01 (100%) --> C120-01

P117-00 (100%) --> C120-01

P122-00 (100%) --> C120-01

P127-01 (100%) --> C120-01

P128-01 (100%) --> C120-01

P129-00 (100%) --> C120-01

P141-00 (100%) --> C120-01

P142-00 (100%) --> C120-01

P143-01 (100%) --> C120-01

P144-0 (100%) --> C120-01
P145-00 (100%) --> C120-01

P147-01 (100%) --> C120-01

P148-01 (100%) --> C120-01

P163-00 (100%) --> C120-01

P161-01 (100%) --> C120-01

P121-00 (100%) --> C120-01

P146-00 (100%) --> C120-01

--OUTGOING STREAMS--
C120-01 (100%) --> S120-01
(100%) --> OUT

C14 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: Panel Filter
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	90%
PM	90%

C14, Process 00 **Used for collectors**
PROCESS NAME: Raw Silo 1 Bin Filter - Tower A
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P14-00 (100%) --> C14-00

--OUTGOING STREAMS--
C14-00 (100%) --> S14-00 (100%) --> OUT

C15 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: Panel Filter
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	90%
PM	90%

C15, Process 00 **Used for collectors**
PROCESS NAME: Raw Silo 2 Bin Filter - Tower A
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P15-00 (100%) --> C15-00

--OUTGOING STREAMS--
C15-00 (100%) --> S15-00 (100%) --> OUT

C150 **Wet Collection Systems** **Scrubber**

DEVICE DESC: Wet Scrubber - Tower B
CONSTR DATE:
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	71%
PHENOL	54.5%
PM	71%
ROG	64%
AMMONIA	3.2913%

C150, Process 01 **Used for collectors**
PROCESS NAME: Wet Scrubber - Tower B
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P151-00 (100%) --> C150-01

P152-00 (100%) --> C150-01

--OUTGOING STREAMS--
C150-01 (100%) --> S150-01
(100%) --> OUT

C19 **Cyclone/Settling Chambers** **Cyclone**

DEVICE DESC: Cyclone - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	90%
PM	90%

C19, Process 01 **Used for collectors**

PROCESS NAME:
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P24-01 (100%) --> C19-01
P24A-01 (100%) --> C19-01

--OUTGOING STREAMS--
C19-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

C20 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: Baghouse - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	99.7%
PM	99.7%

C20, Process 00 **Used for collectors**

PROCESS NAME: Baghouse
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P13-00 (100%) --> C20-00
P16-00 (100%) --> C20-00
P17-00 (100%) --> C20-00
P48-00 (100%) --> C20-00
P21-01 (100%) --> C20-00
P23-01 (100%) --> C20-00
C19-01 (100%) --> C20-00
P27-01 (100%) --> C20-00
P28-01 (100%) --> C20-00
P29-01 (100%) --> C20-00
P41-01 (100%) --> C20-00
P42-01 (100%) --> C20-00
P43-01 (100%) --> C20-00
P44-01 (100%) --> C20-00
P45-01 (100%) --> C20-00
P46-01 (100%) --> C20-00
P47-01 (50%) --> C20-00
P49-01 (100%) --> C20-00
P71-00 (100%) --> C20-00

--OUTGOING STREAMS--
C20-00 (100%) --> S20-00
(100%) --> OUT

C22 **Fabric Filters** **Filter, Mat or Panel**

DEVICE DESC: Raw Silo 3 Bin Filter - Tower A
CONSTR DATE:
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	90%
PM	90%

C22, Process 01 **Used for collectors**
PROCESS NAME: Raw Silo 3 Bin Filter
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P22-02 (100%) --> C22-01

--OUTGOING STREAMS--
C22-01 (100%) --> S22-01
(100%) --> OUT

C50 **Wet Collection Systems** **Scrubber**

DEVICE DESC: Wet Scrubber - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	71%
PHENOL	54.5%
PM	71%
ROG	64%
AMMONIA	3.2913%

C50, Process 00 **Used for collectors**
PROCESS NAME: Wet Scrubber
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P51-01 (100%) --> C50-00
P52-01 (100%) --> C50-00

--OUTGOING STREAMS--
C50-00 (100%) --> S50-00
(100%) --> OUT

F11 **Miscellaneous** **Any Device**

DEVICE DESC: Rail Car Unloading - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

F11, Process 01 **Generic Throughput Process**

PROCESS NAME: UnLoading
SCC CODE: 30502506
PROCESS COMMENTS:
SCHEDULE: 4 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 227935414 LB of PRODUCT - MINERALS
AVG TPUT: 169594.80208 LB/HR
MAX TPUT: 200000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.003 LB / TON	OTHR
PM10	.0011 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	341.903 LB	341.903 LB	
PM10 (c)	10000 LB	125.364 LB	125.364 LB	

--INCOMING STREAMS--
TPUT --> F11-01

--OUTGOING STREAMS--
F11-01 (100%) --> OUT

F111 **Miscellaneous** **Any Device**

DEVICE DESC: Railcar Unloading - Tower B
CONSTR DATE:
DEVICE COMMENTS:

F111, Process 00 **Generic Throughput Process**

PROCESS NAME: Railcar Unloading - Tower B
SCC CODE: 30502506
PROCESS COMMENTS:
SCHEDULE: 4 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 250718632 LB of PRODUCT - MINERALS
AVG TPUT: 186546.60119 LB/HR
MAX TPUT: 200000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.003 LB / TON	DNR
PM10	.0011 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	376.078 LB	376.078 LB	
PM10 (c)	10000 LB	137.895 LB	137.895 LB	

--INCOMING STREAMS--
TPUT --> F111-00

--OUTGOING STREAMS--
F111-00 (100%) --> OUT

F161 **Miscellaneous** **Any Device**

DEVICE DESC: Railcar Loading - Tower B
CONSTR DATE:
DEVICE COMMENTS:

F161, Process 00 **Generic Throughput Process**

PROCESS NAME: Railcar Loading - Tower B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 253151002 LB of PRODUCT - MINERALS
AVG TPUT: 94178.20015 LB/HR
MAX TPUT: 120000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.003 LB / TON	DNR
PM10	.0011 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	379.727 LB	379.727 LB	
PM10 (c)	10000 LB	139.233 LB	139.233 LB	

--INCOMING STREAMS--
TPUT --> F161-00

--OUTGOING STREAMS--
F161-00 (100%) --> OUT

F61 **Miscellaneous** **Any Device**

DEVICE DESC: Railcar Loading - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

F61, Process 01 **Generic Throughput Process**

PROCESS NAME: Railcar Loading - Tower A
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 229961598 LB of PRODUCT - MINERALS
AVG TPUT: 85551.18973 LB/HR
MAX TPUT: 120000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.003 LB / TON	OTHR
PM10	.0011 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	344.942 LB	344.942 LB	
PM10 (c)	10000 LB	126.479 LB	126.479 LB	

--INCOMING STREAMS--
TPUT --> F61-01

--OUTGOING STREAMS--
F61-01 (100%) --> OUT

P113 **Miscellaneous** **Any Device**

DEVICE DESC: Elevator 1 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P113, Process 00 **Generic Throughput Process**

PROCESS NAME: Elevator #1 - Tower B
SCC CODE: 30502502
PROCESS COMMENTS:

SCHEDULE:	4 Hrs/Day	7 Dys/Wk	336 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	125359 TON	of PRODUCT - MINERALS		
AVG TPUT:	93.27307 TON/HR			
MAX TPUT:	100 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	DNR
PM10	.0064 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,635.411 LB	10.906 LB	
PM10 (c)	10000 LB	802.298 LB	2.407 LB	

--INCOMING STREAMS--
TPUT --> P113-00

--OUTGOING STREAMS--
P113-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P114 **Miscellaneous** **Silo**

DEVICE DESC: Raw Silo 1 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P114, Process 01 **Generic Throughput Process**

PROCESS NAME: Raw Silo #1B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 12 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 62680 TON of PRODUCT - MINERALS
AVG TPUT: 15.54563 TON/HR
MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	EPA
PM10	.0064 LB / TON	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	1,817.720 LB	181.772 LB	
PM10 (c)	10000 LB	401.152 LB	40.115 LB	

--INCOMING STREAMS--
TPUT --> P114-01

--OUTGOING STREAMS--
P114-01 (100%) --> C114-01 (100%) --> S114-01 (100%) --> OUT

P115 **Miscellaneous** **Silo**

DEVICE DESC: Raw Silo 2 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P115, Process 00 **Generic Throughput Process**

PROCESS NAME: Raw Silo #2B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 12 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 62680 TON of PRODUCT - MINERALS
AVG TPUT: 15.54563 TON/HR
MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	EPA
PM10	.0064 LB / TON	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	1,817.720 LB	181.772 LB	
PM10 (c)	10000 LB	401.152 LB	40.115 LB	

--INCOMING STREAMS--
TPUT --> P115-00

--OUTGOING STREAMS--
P115-00 (100%) --> C115-01 (100%) --> S115-01 (100%) --> OUT

P116 **Miscellaneous** **Conveyor**

DEVICE DESC: Conveyor 1 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P116, Process 01 **Generic Throughput Process**

PROCESS NAME: Conveyor 1-Tower B
SCC CODE: 30502503
PROCESS COMMENTS:

SCHEDULE:	4 Hrs/Day	7 Dys/Wk	336 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	125359 TON	of PRODUCT - MINERALS		
AVG TPUT:	93.27307 TON/HR			
MAX TPUT:	100 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	DNR
PM10	.0064 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,635.411 LB	10.906 LB	
PM10 (c)	10000 LB	802.298 LB	2.407 LB	

--INCOMING STREAMS--
TPUT --> P116-01

--OUTGOING STREAMS--
P116-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P117 **Miscellaneous** **Conveyor**

DEVICE DESC: Elevator 2 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P117, Process 00 **Generic Throughput Process**

PROCESS NAME: Elevator 2 B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 125359 TON of PRODUCT - MINERALS
AVG TPUT: 15.54551 TON/HR
MAX TPUT: 50 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	DNR
PM10	.0064 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,635.411 LB	10.906 LB	
PM10 (c)	10000 LB	802.298 LB	2.407 LB	

--INCOMING STREAMS--
TPUT --> P117-00

--OUTGOING STREAMS--
P117-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P121 **Miscellaneous** **Any Device**

DEVICE DESC: Day Tank - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P121, Process 00 **Generic Throughput Process**

PROCESS NAME: Day Tank - Tower B
SCC CODE: 30502502
PROCESS COMMENTS:

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	336 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	125359 TON	of PRODUCT - MINERALS		
AVG TPUT:	15.54551 TON/HR			
MAX TPUT:	20 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0012 LB / TON	DNR
PM10	.0006 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	150.431 LB	.451 LB	
PM10 (c)	10000 LB	75.215 LB	.226 LB	

--INCOMING STREAMS--
TPUT --> P121-00

--OUTGOING STREAMS--
P121-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P122 **Miscellaneous** **Any Device**

DEVICE DESC: Weigh Hopper 1 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P122, Process 00 **Generic Throughput Process**

PROCESS NAME: Weigh Hopper - Tower B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 125359 TON of PRODUCT - MINERALS
AVG TPUT: 15.54551 TON/HR
MAX TPUT: 20 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0051 LB / TON	DNR
PM10	.0024 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	639.331 LB	1.918 LB	
PM10 (c)	10000 LB	300.862 LB	.903 LB	

--INCOMING STREAMS--
TPUT --> P122-00

--OUTGOING STREAMS--
P122-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P123 **Boiler/Furnace** **Process Heater**

DEVICE DESC: Raw Material Heater - Tower B
CONSTR DATE:
DEVICE COMMENTS:
MAX RATED CAPACITY: MMBTU/HR

P123, Process 00 **Generic Throughput Process**

PROCESS NAME: Combustion of fuels at atm pressure
SCC CODE: 10200602
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 26.051 MMCF of Natural Gas
AVG TPUT: 3.23053 E3 FT3/H
MAX TPUT: 10 E3 FT3/H

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
AMMONIA	3.2 LB / MMCF	EPA
NOX	100 LB / MMCF	EPA
PM	7.6 LB / MMCF	EPA
PM10	7.6 LB / MMCF	EPA
ROG	5.5 LB / MMCF	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
NOX (c)	10000 LB	2,605.100 LB	2,605.100 LB	7.157 LB
PM (c)	10000 LB	197.988 LB	.059 LB	
PM10 (c)	10000 LB	197.988 LB	.059 LB	
ROG (c)	6000 LB	143.281 LB	143.281 LB	.394 LB
AMMONIA (c) (s)	4097 LB	83.363 LB	83.363 LB	

--INCOMING STREAMS--
TPUT --> P123-00

--OUTGOING STREAMS--
P123-00 (100%) --> C119-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P123A **Miscellaneous** **Any Device**

DEVICE DESC: Emissions from Heater - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P123A, Process 01 **Generic Throughput Process**

PROCESS NAME: Heater Emissions - Tower B
SCC CODE: 30502720
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 125359 TON of PRODUCT - MINERALS
AVG TPUT: 15.54551 TON/HR
MAX TPUT: 20 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
NOX	.031 LB / TON	EPA
PM	.029 LB / TON	DNR
PM10	.0064 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
NOX (c)	10000 LB	3,886.129 LB	3,886.129 LB	10.676 LB
PM (c)	10000 LB	3,635.411 LB	1.091 LB	
PM10 (c)	10000 LB	802.298 LB	.241 LB	

--INCOMING STREAMS--
TPUT --> P123A-01

--OUTGOING STREAMS--
P123A-01 (100%) --> C119-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P127 **Miscellaneous** **Any Device**

DEVICE DESC: Elevator 3 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P127, Process 01 **Generic Throughput Process**

PROCESS NAME: Elevator 3 - Tower B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 253151002 LB of PRODUCT - MINERALS
AVG TPUT: 31392.73338 LB/HR
MAX TPUT: 32000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	DNR
PM10	.0064 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,670.690 LB	11.012 LB	
PM10 (c)	10000 LB	810.083 LB	2.430 LB	

--INCOMING STREAMS--
TPUT --> P127-01

--OUTGOING STREAMS--
P127-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P128 **Miscellaneous** **Any Device**

DEVICE DESC: Resin Tank - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P128, Process 01 **Generic Throughput Process**

PROCESS NAME: Resin Tank - Tower B
SCC CODE: 30502502
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 7419420 LB of PRODUCT - MINERALS
AVG TPUT: 920.06696 LB/HR
MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0062 LB / TON	DNR
PM10	.0003 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	23.000 LB	.069 LB	
PM10 (c)	10000 LB	1.113 LB	.003 LB	

--INCOMING STREAMS--
TPUT --> P128-01

--OUTGOING STREAMS--
P128-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P129 **Miscellaneous** **Any Device**

DEVICE DESC: Weigh Hopper 2 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P129, Process 00 **Generic Throughput Process**

PROCESS NAME: Weigh Hopper 2 - Tower B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 7419420 LB of PRODUCT - MINERALS
AVG TPUT: 920.06696 LB/HR
MAX TPUT: 2000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0051 LB / TON	DNR
PM10	.0024 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	18.920 LB	.057 LB	
PM10 (c)	10000 LB	8.903 LB	.027 LB	

--INCOMING STREAMS--
TPUT --> P129-00

--OUTGOING STREAMS--
P129-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P13 **Miscellaneous** **Conveyor**

DEVICE DESC: Elevator 1 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P13, Process 00 **Generic Throughput Process**

PROCESS NAME: Elevator # 1
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 4 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 113968 TON of PRODUCT - MINERALS
AVG TPUT: 84.79762 TON/HR
MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	OTHR
PM10	.0064 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,305.072 LB	9.915 LB	
PM10 (c)	10000 LB	729.395 LB	2.188 LB	

--INCOMING STREAMS--
TPUT --> P13-00

--OUTGOING STREAMS--
P13-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P14 **Miscellaneous** **Silo**

DEVICE DESC: Raw Silo 1 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P14, Process 00 **Generic Throughput Process**

PROCESS NAME: Raw Silo #1
SCC CODE: 30502502
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 37989 TON of PRODUCT - MINERALS
AVG TPUT: 14.13281 TON/HR
MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.000615 LB / TON	AP42
PM10	.000291 LB / TON	AP42

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	23.363 LB	2.336 LB	
PM10 (c)	10000 LB	11.055 LB	1.105 LB	

--INCOMING STREAMS--
TPUT --> P14-00

--OUTGOING STREAMS--
P14-00 (100%) --> C14-00 (100%) --> S14-00 (100%) --> OUT

P141 **Miscellaneous** **Screen**

DEVICE DESC: Shaker Screen - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P141, Process 00 **Generic Throughput Process**

PROCESS NAME: Simplicity Screen
SCC CODE: 30502502
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 253151002 LB of PRODUCT - MINERALS
AVG TPUT: 31392.73338 LB/HR
MAX TPUT: 32000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.003 LB / TON	DNR
PM10	.0011 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	379.727 LB	1.139 LB	
PM10 (c)	10000 LB	139.233 LB	.418 LB	

--INCOMING STREAMS--
TPUT --> P141-00

--OUTGOING STREAMS--
P141-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P142 **Miscellaneous** **Any Device**

DEVICE DESC: Elevator 4 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P142, Process 00 **Generic Throughput Process**

PROCESS NAME: Elevator 4 - Tower B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 253151002 LB of PRODUCT - MINERALS
AVG TPUT: 31392.73338 LB/HR
MAX TPUT: 32000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	DNR
PM10	.0064 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,670.690 LB	11.012 LB	
PM10 (c)	10000 LB	810.083 LB	2.430 LB	

--INCOMING STREAMS--
TPUT --> P142-00

--OUTGOING STREAMS--
P142-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P143 **Miscellaneous** **Screen**

DEVICE DESC: Scalping Screen - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P143, Process 01 **Generic Throughput Process**

PROCESS NAME: Sweco
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 253151002 LB of PRODUCT - MINERALS
AVG TPUT: 31392.73338 LB/HR
MAX TPUT: 32000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.003 LB / TON	DNR
PM10	.0011 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	379.727 LB	1.139 LB	
PM10 (c)	10000 LB	139.233 LB	.418 LB	

--INCOMING STREAMS--
TPUT --> P143-01

--OUTGOING STREAMS--
P143-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P144 **Miscellaneous** **Cooler**

DEVICE DESC: Product Cooler - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P144, Process 0 **Generic Throughput Process**

PROCESS NAME: Product Cooler - Tower B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 253151002 LB of PRODUCT - MINERALS
AVG TPUT: 31392.73338 LB/HR
MAX TPUT: 32000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.003 LB / TON	DNR
PM10	.0011 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	379.727 LB	1.139 LB	
PM10 (c)	10000 LB	139.233 LB	.418 LB	

--INCOMING STREAMS--
TPUT --> P144-0

--OUTGOING STREAMS--
P144-0 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P145 **Miscellaneous** **Any Device**

DEVICE DESC: Elevator 5 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P145, Process 00 **Generic Throughput Process**

PROCESS NAME: Elevator 5 - Tower B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 253151002 LB of PRODUCT - MINERALS
AVG TPUT: 31392.73338 LB/HR
MAX TPUT: 32000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.058 LB / TON	DNR
PM10	.0128 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	7,341.379 LB	22.024 LB	
PM10 (c)	10000 LB	1,620.166 LB	4.861 LB	

--INCOMING STREAMS--
TPUT --> P145-00

--OUTGOING STREAMS--
P145-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P146 **Miscellaneous** **Silo**

DEVICE DESC: Finished Silo 1 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P146, Process 00 **Generic Throughput Process**

PROCESS NAME: Finshed Silo 1 - Tower B
SCC CODE: 30200610
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 84383667 LB of PRODUCT - AGRICULTURE
AVG TPUT: 31392.73326 LB/HR
MAX TPUT: 80000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0006 LB / TON	DNR
PM10	.0003 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	25.315 LB	.076 LB	
PM10 (c)	10000 LB	12.658 LB	.038 LB	

--INCOMING STREAMS--
TPUT --> P146-00

--OUTGOING STREAMS--
P146-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P147 **Miscellaneous** **Silo**

DEVICE DESC: Finished Silo 2 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P147, Process 01 **Generic Throughput Process**

PROCESS NAME: Finsished Silo 2 - Tower B
SCC CODE: 30200610
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 84383667 LB of PRODUCT - AGRICULTURE
AVG TPUT: 31392.73326 LB/HR
MAX TPUT: 80000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0006 LB / TON	DNR
PM10	.0003 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	25.315 LB	.076 LB	
PM10 (c)	10000 LB	12.658 LB	.038 LB	

--INCOMING STREAMS--
TPUT --> P147-01

--OUTGOING STREAMS--
P147-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P148 **Miscellaneous** **Silo**

DEVICE DESC: Finished Silo 3 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P148, Process 01 **Generic Throughput Process**

PROCESS NAME: Finished Silo 3 - Tower B
SCC CODE: 30200610
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 84383667 LB of PRODUCT - AGRICULTURE
AVG TPUT: 31392.73326 LB/HR
MAX TPUT: 80000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0029 LB / TON	DNR
PM10	.0029 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	122.356 LB	.367 LB	
PM10 (c)	10000 LB	122.356 LB	.367 LB	

--INCOMING STREAMS--
TPUT --> P148-01

--OUTGOING STREAMS--
P148-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P15 **Miscellaneous** **Silo**

DEVICE DESC: Raw Silo 2 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P15, Process 00 **Generic Throughput Process**

PROCESS NAME: Raw Silo #2
SCC CODE: 30502502
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 37989 TON of PRODUCT - MINERALS
AVG TPUT: 14.13281 TON/HR
MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.000615 LB / TON	OTHR
PM10	.000291 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	23.363 LB	2.336 LB	
PM10 (c)	10000 LB	11.055 LB	1.105 LB	

--INCOMING STREAMS--
TPUT --> P15-00

--OUTGOING STREAMS--
P15-00 (100%) --> C15-00 (100%) --> S15-00 (100%) --> OUT

P151 **Miscellaneous** **Any Device**

DEVICE DESC: Batch Mixer - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P151, Process 00 **Generic Throughput Process**

PROCESS NAME: Batch Mixer
SCC CODE: 30502506
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 253151002 LB of PRODUCT - MINERALS
AVG TPUT: 31392.73338 LB/HR
MAX TPUT: 38000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
AMMONIA	.73287 LB / TON	MBAL
PHENOL	.1205 LB / TON	STK
PM	.1355 LB / TON	STK
PM10	.1355 LB / TON	STK
ROG	.1205 LB / TON	STK

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	17,150.980 LB	4,973.784 LB	
PM10 (c)	10000 LB	17,150.980 LB	4,973.784 LB	
ROG (c)	6000 LB	15,252.348 LB	5,490.845 LB	15.085 LB
AMMONIA (c) (s)	4097 LB	156,577.692 LB	152,886.686 LB	
PHENOL (c) (fs)	4528 LB	15,252.348 LB	6,939.818 LB	

--INCOMING STREAMS--
TPUT --> P151-00

--OUTGOING STREAMS--
P151-00 (100%) --> C150-01 (100%) --> S150-01 (100%) --> OUT

Example Uncontrolled NH3:
253,151,002 lbs-product/yr / (2,000 lb/ton) x 0.73287 lb-NH3/ton-product =92,763 lbs-NH3/yr
In contrast, the online system calculated an emission rate of 156,578 lbs-NH3/yr, which is 63,815 lbs-NH3/yr greater than it should've been for the inlet loading to the scrubber.

P151, Process 01 **Generic Throughput Process**

PROCESS NAME: Ammonia
SCC CODE: 30100101
PROCESS COMMENTS: Process accounts for "secondary" emission of NH3 initially controlled by C150, but then volatizes from a scrubber water tank w/increasing pH. Resulting fugitive indoor emissions exhaust via roof vent

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 6728 LB of PRODUCT - CHEMICAL

AVG TPUT: .83433 LB/HR
MAX TPUT: 2 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
AMMONIA	.73287 LB / LB	MBAL
PHENOL	0 LB / TON	EPA
ROG	0 LB / TON	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
AMMONIA (c) (s)	4097 LB	4,930.749 LB	4,930.749 LB	

--INCOMING STREAMS--
TPUT --> P151-01

--OUTGOING STREAMS--
P151-01 (100%) --> OUT

P152 **Miscellaneous** **Any Device**

DEVICE DESC: Continuous Mixer - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P152, Process 00 **Generic Throughput Process**

PROCESS NAME: Continuous Mixer - Tower B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 253151002 LB of PRODUCT - MINERALS
AVG TPUT: 31392.73338 LB/HR
MAX TPUT: 38000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
AMMONIA	.73287 LB / TON	MBAL
PHENOL	.1205 LB / TON	STK
PM	.1355 LB / TON	STK
PM10	.1355 LB / TON	STK
ROG	.1205 LB / TON	STK

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	17,150.980 LB	4,973.784 LB	
PM10 (c)	10000 LB	17,150.980 LB	4,973.784 LB	
ROG (c)	6000 LB	15,252.348 LB	5,490.845 LB	15.085 LB
AMMONIA (c) (s)	4097 LB	156,577.692 LB	152,886.686 LB	
PHENOL (c) (fs)	4528 LB	15,252.348 LB	6,939.818 LB	

--INCOMING STREAMS--
TPUT --> P152-00

--OUTGOING STREAMS--
P152-00 (100%) --> C150-01 (100%) --> S150-01 (100%) --> OUT

P152, Process 01 **Generic Throughput Process**

PROCESS NAME: Ammonia
SCC CODE: 30100101
PROCESS COMMENTS: Process accounts for "secondary" emission of NH3 initially controlled by C150, but then volatizes from a scrubber water tank w/increasing pH. Resulting fugitive indoor emissions exhaust via roof vent

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 6728 LB of PRODUCT - CHEMICAL

AVG TPUT: .83433 LB/HR
MAX TPUT: 2 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
AMMONIA	.73287 LB / LB	MBAL
PHENOL	0 LB / TON	EPA
ROG	0 LB / TON	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
AMMONIA (c) (s)	4097 LB	4,930.749 LB	4,930.749 LB	

--INCOMING STREAMS--
TPUT --> P152-01

--OUTGOING STREAMS--
P152-01 (100%) --> OUT

P16 **Miscellaneous** **Conveyor**

DEVICE DESC: Conveyor 1 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P16, Process 00 **Generic Throughput Process**

PROCESS NAME: Conveyors #1
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 4 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 113968 TON of PRODUCT - MINERALS
AVG TPUT: 84.79762 TON/HR
MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	OTHR
PM10	.0064 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,305.072 LB	9.915 LB	
PM10 (c)	10000 LB	729.395 LB	2.188 LB	

--INCOMING STREAMS--
TPUT --> P16-00

--OUTGOING STREAMS--
P16-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P161 **Miscellaneous** **Conveyor**

DEVICE DESC: Conveyor 2 - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P161, Process 01 **Generic Throughput Process**

PROCESS NAME: Conveyor 2 - Tower B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 12 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 253151002 LB of PRODUCT - MINERALS
AVG TPUT: 31392.73338 LB/HR
MAX TPUT: 32000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	DNR
PM10	.0064 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,670.690 LB	11.012 LB	
PM10 (c)	10000 LB	810.083 LB	2.430 LB	

--INCOMING STREAMS--
TPUT --> P161-01

--OUTGOING STREAMS--
P161-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P163 **Miscellaneous** **Conveyor**

DEVICE DESC: Weigh Belt - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P163, Process 00 **Generic Throughput Process**

PROCESS NAME: Weigh Belt - Tower B
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 12 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 253151002 LB of PRODUCT - MINERALS
AVG TPUT: 62785.46677 LB/HR
MAX TPUT: 120000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	DNR
PM10	.0064 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,670.690 LB	11.012 LB	
PM10 (c)	10000 LB	810.083 LB	2.430 LB	

--INCOMING STREAMS--
TPUT --> P163-00

--OUTGOING STREAMS--
P163-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

P17 **Miscellaneous** **Conveyor**

DEVICE DESC: Elevator 2 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P17, Process 00 **Generic Throughput Process**

PROCESS NAME: Elevator #2
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 113968 TON of PRODUCT - MINERALS
AVG TPUT: 14.13294 TON/HR
MAX TPUT: 50 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	OTHR
PM10	.0064 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,305.072 LB	9.915 LB	
PM10 (c)	10000 LB	729.395 LB	2.188 LB	

--INCOMING STREAMS--
TPUT --> P17-00

--OUTGOING STREAMS--
P17-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P21 **Miscellaneous** **Any Device**

DEVICE DESC: Day Tank 1 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P21, Process 01 **Generic Throughput Process**

PROCESS NAME: Day Tank
SCC CODE: 30502502
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 113968 TON of PRODUCT - MINERALS
AVG TPUT: 14.13294 TON/HR
MAX TPUT: 15 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.00123 LB / TON	OTHR
PM10	.000582 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	140.181 LB	.421 LB	
PM10 (c)	10000 LB	66.329 LB	.199 LB	

--INCOMING STREAMS--
TPUT --> P21-01

--OUTGOING STREAMS--
P21-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P22 **Miscellaneous** **Silo**

DEVICE DESC: Raw Silo 3 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P22, Process 02 **Generic Throughput Process**

PROCESS NAME: Raw Silo 3
SCC CODE: 30502502
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 37989 TON of PRODUCT - MINERALS
AVG TPUT: 14.13281 TON/HR
MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0006 LB / TON	DNR
PM10	.0003 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	22.793 LB	2.279 LB	
PM10 (c)	10000 LB	11.397 LB	1.140 LB	

--INCOMING STREAMS--
TPUT --> P22-02

--OUTGOING STREAMS--
P22-02 (100%) --> C22-01 (100%) --> S22-01 (100%) --> OUT

P23 **Miscellaneous** **Any Device**

DEVICE DESC: Weigh Hopper 1 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P23, Process 01 **Generic Throughput Process**

PROCESS NAME: Weigh Hopper 1
SCC CODE: 30502503
PROCESS COMMENTS:

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	336 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	113968 TON	of PRODUCT - MINERALS		
AVG TPUT:	14.13294 TON/HR			
MAX TPUT:	15 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0051 LB / LB	OTHR
PM10	.0024 LB / LB	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	1,162,473.600 LB	3,487.421 LB	
PM10 (c)	10000 LB	547,046.400 LB	1,641.139 LB	

--INCOMING STREAMS--
TPUT --> P23-01

--OUTGOING STREAMS--
P23-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P24 **Boiler/Furnace** **Process Heater**

DEVICE DESC: Raw Material Heater - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:
MAX RATED CAPACITY: MMBTU/HR

P24, Process 01 **Generic Throughput Process**

PROCESS NAME: Combustion of fuels at atmospheric pressure
SCC CODE: 10200602
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 23.665 MMCF of Natural Gas
AVG TPUT: 2.93465 E3 FT3/H
MAX TPUT: 10 E3 FT3/H

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
AMMONIA	3.2 LB / MMCF	EPA
NOX	100 LB / MMCF	EPA
PM	8.6 LB / MMCF	EPA
PM10	8.6 LB / MMCF	EPA
ROG	5.5 LB / MMCF	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
NOX (c)	10000 LB	2,366.500 LB	2,366.500 LB	6.501 LB
PM (c)	10000 LB	203.519 LB	.061 LB	
PM10 (c)	10000 LB	203.519 LB	.061 LB	
ROG (c)	6000 LB	130.158 LB	130.158 LB	.358 LB
AMMONIA (c) (s)	4097 LB	75.728 LB	75.728 LB	

--INCOMING STREAMS--
TPUT --> P24-01

--OUTGOING STREAMS--
P24-01 (100%) --> C19-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P24A **Miscellaneous** **Any Device**

DEVICE DESC: Dust Emissions from (P24) - Tower A
CONSTR DATE:
DEVICE COMMENTS:

P24A, Process 01 **Generic Throughput Process**

PROCESS NAME: Sand Heating
SCC CODE: 30502720
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 113968 TON of PRODUCT - MINERALS
AVG TPUT: 14.13294 TON/HR
MAX TPUT: 15 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
NOX	.031 LB / TON	EPA
PM	.029 LB / TON	DNR
PM10	.0064 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
NOX (c)	10000 LB	3,533.008 LB	3,533.008 LB	9.706 LB
PM (c)	10000 LB	3,305.072 LB	.992 LB	
PM10 (c)	10000 LB	729.395 LB	.219 LB	

--INCOMING STREAMS--
TPUT --> P24A-01

--OUTGOING STREAMS--
P24A-01 (100%) --> C19-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P27 **Miscellaneous** **Any Device**

DEVICE DESC: Elevator 3 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P27, Process 01 **Generic Throughput Process**

PROCESS NAME: Elevator 3
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 229961598 LB of PRODUCT - MINERALS
AVG TPUT: 28517.06324 LB/HR
MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	DNR
PM10	.0064 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,334.443 LB	10.003 LB	
PM10 (c)	10000 LB	735.877 LB	2.208 LB	

--INCOMING STREAMS--
TPUT --> P27-01

--OUTGOING STREAMS--
P27-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P28 **Miscellaneous** **Any Device**

DEVICE DESC: Resin Tank - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P28, Process 01 **Generic Throughput Process**

PROCESS NAME: Resin Tank
SCC CODE: 30502502
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 6665463 LB of PRODUCT - MINERALS
AVG TPUT: 826.57031 LB/HR
MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.00615 LB / TON	OTHR
PM10	.000291 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	20.496 LB	.061 LB	
PM10 (c)	10000 LB	.970 LB	.003 LB	

--INCOMING STREAMS--
TPUT --> P28-01

--OUTGOING STREAMS--
P28-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P29 **Miscellaneous** **Any Device**

DEVICE DESC: Weigh Hopper 2 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P29, Process 01 **Generic Throughput Process**

PROCESS NAME: Resin Weigh Hopper
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 6665463 LB of PRODUCT - MINERALS
AVG TPUT: 826.57031 LB/HR
MAX TPUT: 2000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.0051 LB / TON	OTHR
PM10	.0024 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	16.997 LB	.051 LB	
PM10 (c)	10000 LB	7.999 LB	.024 LB	

--INCOMING STREAMS--
TPUT --> P29-01

--OUTGOING STREAMS--
P29-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P41 **Miscellaneous** **Screen**

DEVICE DESC: Shaker Screen - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P41, Process 01 **Generic Throughput Process**

PROCESS NAME: Simplicity Screen
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 229961598 LB of PRODUCT - MINERALS
AVG TPUT: 28517.06324 LB/HR
MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.003 LB / TON	OTHR
PM10	.0011 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	344.942 LB	1.035 LB	
PM10 (c)	10000 LB	126.479 LB	.379 LB	

--INCOMING STREAMS--
TPUT --> P41-01

--OUTGOING STREAMS--
P41-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P42 **Miscellaneous** **Any Device**

DEVICE DESC: Elevator 4 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P42, Process 01 **Generic Throughput Process**

PROCESS NAME: Elevator #4
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 229961598 LB of PRODUCT - MINERALS
AVG TPUT: 28517.06324 LB/HR
MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	EPA
PM10	.0064 LB / TON	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,334.443 LB	10.003 LB	
PM10 (c)	10000 LB	735.877 LB	2.208 LB	

--INCOMING STREAMS--
TPUT --> P42-01

--OUTGOING STREAMS--
P42-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P43 **Miscellaneous** **Screen**

DEVICE DESC: Scalping Screen - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P43, Process 01 **Generic Throughput Process**

PROCESS NAME: Sweco Screen
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 229961598 LB of PRODUCT - MINERALS
AVG TPUT: 28517.06324 LB/HR
MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.003 LB / TON	OTHR
PM10	.0011 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	344.942 LB	1.035 LB	
PM10 (c)	10000 LB	126.479 LB	.379 LB	

--INCOMING STREAMS--
TPUT --> P43-01

--OUTGOING STREAMS--
P43-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P44 **Miscellaneous** **Cooler**

DEVICE DESC: Product Cooler - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P44, Process 01 **Generic Throughput Process**

PROCESS NAME: Cooling
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 229961598 LB of PRODUCT - MINERALS
AVG TPUT: 28517.06324 LB/HR
MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.003 LB / TON	OTHR
PM10	.0011 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	344.942 LB	1.035 LB	
PM10 (c)	10000 LB	126.479 LB	.379 LB	

--INCOMING STREAMS--
TPUT --> P44-01

--OUTGOING STREAMS--
P44-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P45 **Miscellaneous** **Conveyor**

DEVICE DESC: Conveyor 2 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P45, Process 01 **Generic Throughput Process**

PROCESS NAME: Converyor #2
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 12 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 229961598 LB of PRODUCT - MINERALS
AVG TPUT: 28517.06324 LB/HR
MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	EPA
PM10	.0064 LB / TON	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,334.443 LB	10.003 LB	
PM10 (c)	10000 LB	735.877 LB	2.208 LB	

--INCOMING STREAMS--
TPUT --> P45-01

--OUTGOING STREAMS--
P45-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P46 **Miscellaneous** **Any Device**

DEVICE DESC: Elevator 5 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P46, Process 01 **Generic Throughput Process**

PROCESS NAME: Elevator #5
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 229961598 LB of PRODUCT - MINERALS
AVG TPUT: 28517.06324 LB/HR
MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.058 LB / TON	OTHR
PM10	.0128 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	6,668.886 LB	20.007 LB	
PM10 (c)	10000 LB	1,471.754 LB	4.415 LB	

--INCOMING STREAMS--
TPUT --> P46-01

--OUTGOING STREAMS--
P46-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P47 **Miscellaneous** **Silo**

DEVICE DESC: Finished Silo 1 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P47, Process 01 **Generic Throughput Process**

PROCESS NAME: Finished Silo #1
SCC CODE: 30502502
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 76653866 LB of PRODUCT - MINERALS
AVG TPUT: 28517.06324 LB/HR
MAX TPUT: 80000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.000615 LB / TON	OTHR
PM10	.000291 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	23.571 LB	11.821 LB	
PM10 (c)	10000 LB	11.153 LB	5.593 LB	

--INCOMING STREAMS--
TPUT --> P47-01

--OUTGOING STREAMS--
P47-01 (50%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P48 **Miscellaneous** **Silo**

DEVICE DESC: Finished Silo 2 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P48, Process 00 **Generic Throughput Process**

PROCESS NAME: Finish Silo #2
SCC CODE: 30200610
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 76653866 LB of PRODUCT - AGRICULTURE
AVG TPUT: 28517.06324 LB/HR
MAX TPUT: 80000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.000615 LB / TON	OTHR
PM10	.000291 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	23.571 LB	.071 LB	
PM10 (c)	10000 LB	11.153 LB	.033 LB	

--INCOMING STREAMS--
TPUT --> P48-00

--OUTGOING STREAMS--
P48-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P49 **Miscellaneous** **Any Device**

DEVICE DESC: Weigh Belt - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P49, Process 01 **Generic Throughput Process**

PROCESS NAME: Weigh Belt
SCC CODE: 30502503
PROCESS COMMENTS:
SCHEDULE: 12 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 229961598 LB of PRODUCT - MINERALS
AVG TPUT: 57034.12649 LB/HR
MAX TPUT: 120000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.029 LB / TON	EPA
PM10	.0064 LB / TON	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	3,334.443 LB	10.003 LB	
PM10 (c)	10000 LB	735.877 LB	2.208 LB	

--INCOMING STREAMS--
TPUT --> P49-01

--OUTGOING STREAMS--
P49-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

P51 **Miscellaneous** **Any Device**

DEVICE DESC: Batch Mixer - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P51, Process 00 **Generic Throughput Process**

PROCESS NAME: Ammonia
SCC CODE: 30100101
PROCESS COMMENTS: Process accounts for "secondary" emission of NH3 initially controlled by C50, but then volatizes from a scrubber water tank w/increasing pH. Resulting fugitive indoor emissions exhaust via roof vent

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	336 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	6112 LB	of PRODUCT - CHEMICAL		
AVG TPUT:	.75794 LB/HR			
MAX TPUT:	2 LB/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
AMMONIA	.73287 LB / LB	MBAL
PHENOL	0 LB / TON	EPA
ROG	0 LB / TON	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
AMMONIA (c) (s)	4097 LB	4,479.301 LB	4,479.301 LB	

--INCOMING STREAMS--
TPUT --> P51-00

--OUTGOING STREAMS--
P51-00 (100%) --> OUT

P51, Process 01 **Generic Throughput Process**

PROCESS NAME: Batch Mixer
SCC CODE: 30502506
PROCESS COMMENTS:

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	336 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	229961598 LB	of PRODUCT - MINERALS		
AVG TPUT:	28517.06324 LB/HR			
MAX TPUT:	38000 LB/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
AMMONIA	.73287 LB / TON	MBAL
PHENOL	.1205 LB / TON	STK
PM	.1355 LB / TON	STK

PM10	.1355 LB / TON	STK
ROG	.1205 LB / TON	STK

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	15,579.898 LB	4,518.171 LB	
PM10 (c)	10000 LB	15,579.898 LB	4,518.171 LB	
ROG (c)	6000 LB	13,855.186 LB	4,987.867 LB	13.703 LB
AMMONIA (c) (s)	4097 LB	142,234.698 LB	138,881.799 LB	
PHENOL (c) (fs)	4528 LB	13,855.186 LB	6,304.110 LB	

--INCOMING STREAMS--
TPUT --> P51-01

--OUTGOING STREAMS--
P51-01 (100%) --> C50-00 (100%) --> S50-00 (100%) --> OUT

P52 **Miscellaneous** **Any Device**

DEVICE DESC: Continuous Mixer - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P52, Process 00 **Generic Throughput Process**

PROCESS NAME: Ammonia
SCC CODE: 30100101
PROCESS COMMENTS: Process accounts for "secondary" emission of NH3 initially controlled by C50, but then volatizes from a scrubber water tank w/increasing pH. Resulting fugitive indoor emissions exhaust via roof vent

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	336 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	6112 LB	of PRODUCT - CHEMICAL		
AVG TPUT:	.75794 LB/HR			
MAX TPUT:	2 LB/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
AMMONIA	.73287 LB / LB	MBAL
PHENOL	0 LB / TON	EPA
ROG	0 LB / TON	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
AMMONIA (c) (s)	4097 LB	4,479.301 LB	4,479.301 LB	

--INCOMING STREAMS--
TPUT --> P52-00

--OUTGOING STREAMS--
P52-00 (100%) --> OUT

P52, Process 01 **Generic Throughput Process**

PROCESS NAME: Continuous Mixer
SCC CODE: 30502503
PROCESS COMMENTS:

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	336 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	229961598 LB	of PRODUCT - MINERALS		
AVG TPUT:	28517.06324 LB/HR			
MAX TPUT:	38000 LB/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
AMMONIA	.73287 LB / TON	MBAL
PHENOL	.1205 LB / TON	DNR
PM	.1355 LB / TON	DNR

PM10	.1355 LB / TON	DNR
ROG	.1205 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	15,579.898 LB	4,518.171 LB	
PM10 (c)	10000 LB	15,579.898 LB	4,518.171 LB	
ROG (c)	6000 LB	13,855.186 LB	4,987.867 LB	13.703 LB
AMMONIA (c) (s)	4097 LB	142,234.698 LB	138,881.799 LB	
PHENOL (c) (fs)	4528 LB	13,855.186 LB	6,304.110 LB	

--INCOMING STREAMS--
TPUT --> P52-01

--OUTGOING STREAMS--
P52-01 (100%) --> C50-00 (100%) --> S50-00 (100%) --> OUT

P71 **Miscellaneous** **Silo**

DEVICE DESC: Finish Silo 3 - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:

P71, Process 00 **Generic Throughput Process**

PROCESS NAME: Finsh silo #3
SCC CODE: 30200610
PROCESS COMMENTS:
SCHEDULE: 8 Hrs/Day 7 Dys/Wk 336 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 76653866 LB of PRODUCT - AGRICULTURE
AVG TPUT: 28517.06324 LB/HR
MAX TPUT: 80000 LB/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.00291 LB / TON	DNR
PM10	.00291 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	111.531 LB	.335 LB	
PM10 (c)	10000 LB	111.531 LB	.335 LB	

--INCOMING STREAMS--
TPUT --> P71-00

--OUTGOING STREAMS--
P71-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

S114 **Stack** **Stack**

DEVICE DESC: Raw Silo 1 Discharge Stack - Tower B
CONSTR DATE:
DEVICE COMMENTS:
STACK HEIGHT: 18.3 m or 60.04 ft
STACK DIAMETER: .15 m or .49 ft
STACK TEMP: 293 K or 67.73 F
STACK VELOCITY: .01 m/s or .03 ft/s

S114, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: Stack for P114
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 6 Dys/Wk 315 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 22% Q3: 26% Q4: 28%

--INCOMING STREAMS--
C114-01 (100%) --> S114-01

--OUTGOING STREAMS--
S114-01 (100%) --> OUT

S115 **Stack** **Stack**

DEVICE DESC: Raw Silo 2 Discharge Stack - Tower B
CONSTR DATE:
DEVICE COMMENTS:
STACK HEIGHT: 18.3 m or 60.04 ft
STACK DIAMETER: .15 m or .49 ft
STACK TEMP: 293 K or 67.73 F
STACK VELOCITY: .01 m/s or .03 ft/s

S115, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: Stack for P115
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 6 Dys/Wk 315 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 22% Q3: 26% Q4: 28%

--INCOMING STREAMS--
C115-01 (100%) --> S115-01

--OUTGOING STREAMS--
S115-01 (100%) --> OUT

S120 **Stack** **Stack**

DEVICE DESC: Baghouse Discharge Stack - Tower B
CONSTR DATE:
DEVICE COMMENTS:
STACK HEIGHT: 4.9 m or 16.08 ft
STACK DIAMETER: .76 m or 2.49 ft
STACK TEMP: 293 K or 67.73 F
STACK VELOCITY: 11.9 m/s or 39.04 ft/s

S120, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: Stack for P113, P116-117, P121-P129, P141-P149, P171
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 6 Dys/Wk 315 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 22% Q3: 26% Q4: 28%

--INCOMING STREAMS--
C120-01 (100%) --> S120-01

--OUTGOING STREAMS--
S120-01 (100%) --> OUT

S14 **Stack** **Stack**

DEVICE DESC: Raw Silo 1 Discharge Stack - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:
STACK HEIGHT: 18.9 m or 62.01 ft
STACK DIAMETER: .05 m or .16 ft
STACK TEMP: 293 K or 67.73 F
STACK VELOCITY: .01 m/s or .03 ft/s

S14, Process 00 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: Raw Silo 1 Discharge Stack - Tower A
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 6 Dys/Wk 308 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 22% Q3: 27% Q4: 27%

--INCOMING STREAMS--
C14-00 (100%) --> S14-00

--OUTGOING STREAMS--
S14-00 (100%) --> OUT

S15 **Stack** **Stack**

DEVICE DESC: Raw Silo 2 Discharge Stack - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:
STACK HEIGHT: 18.9 m or 62.01 ft
STACK DIAMETER: .05 m or .16 ft
STACK TEMP: 293 K or 67.73 F
STACK VELOCITY: .01 m/s or .03 ft/s

S15, Process 00 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: Raw Silo 2 Discharge Stack - Tower A
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 6 Dys/Wk 308 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 22% Q3: 27% Q4: 27%

--INCOMING STREAMS--
C15-00 (100%) --> S15-00

--OUTGOING STREAMS--
S15-00 (100%) --> OUT

S150 **Stack** **Stack**

DEVICE DESC: Wet Scrubber Discharge Stack - Tower B
CONSTR DATE:
DEVICE COMMENTS:
STACK HEIGHT: 22.9 m or 75.13 ft
STACK DIAMETER: .61 m or 2 ft
STACK TEMP: 293 K or 67.73 F
STACK VELOCITY: 9.7 m/s or 31.82 ft/s

S150, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: Stack for P151-153
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 6 Dys/Wk 315 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 22% Q3: 26% Q4: 28%

--INCOMING STREAMS--
C150-01 (100%) --> S150-01

--OUTGOING STREAMS--
S150-01 (100%) --> OUT

S20 **Stack** **Stack**

DEVICE DESC: Baghouse Discharge Stack - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:
STACK HEIGHT: 4.9 m or 16.08 ft
STACK DIAMETER: .76 m or 2.49 ft
STACK TEMP: 293 K or 67.73 F
STACK VELOCITY: 11.9 m/s or 39.04 ft/s

S20, Process 00 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: Baghouse Discharge Stack - Tower A
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 6 Dys/Wk 308 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 22% Q3: 27% Q4: 27%

--INCOMING STREAMS--
C20-00 (100%) --> S20-00

--OUTGOING STREAMS--
S20-00 (100%) --> OUT

S22 **Stack** **Stack**

DEVICE DESC: Raw Silo 3 Discharge Stack - Tower A
CONSTR DATE:
DEVICE COMMENTS:
STACK HEIGHT: 18.9 m or 62.01 ft
STACK DIAMETER: .05 m or .16 ft
STACK TEMP: 293 K or 67.73 F
STACK VELOCITY: .01 m/s or .03 ft/s

S22, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: Raw Silo 3 Discharge Stack
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 6 Dys/Wk 308 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 22% Q3: 27% Q4: 27%

--INCOMING STREAMS--
C22-01 (100%) --> S22-01

--OUTGOING STREAMS--
S22-01 (100%) --> OUT

S50 **Stack** **Stack**

DEVICE DESC: Wet Scrubber Discharge Stack - Tower A
CONSTR DATE: 12/01/2005
DEVICE COMMENTS:
STACK HEIGHT: 25.6 m or 83.99 ft
STACK DIAMETER: .61 m or 2 ft
STACK TEMP: 293 K or 67.73 F
STACK VELOCITY: 9.7 m/s or 31.82 ft/s

S50, Process 00 **Releasing/Discharging material to the atmosphere**

PROCESS NAME: Wet Scrubber Discharge Stack - Tower A
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 6 Dys/Wk 308 Dys/Yr
QTRLY SCHEDULE: Q1: 24% Q2: 22% Q3: 27% Q4: 27%

--INCOMING STREAMS--
C50-00 (100%) --> S50-00

--OUTGOING STREAMS--
S50-00 (100%) --> OUT

FACILITY EMISSIONS SUMMARY

-2010 SUMMARY-	--2010--	--2010--	--2010--	--2010--
--POLLUTANT--	--NR438_THRESH--	--UNCNTRLD/YR--	--CNTRLD/YR--	--OZONE/DY--
NOX	10000 LB	12,390.73700 LB	12,390.73700 LB	34.04049 LB
PM	10000 LB	1,306,792.22396 LB	24,497.53095 LB	
PM10	10000 LB	631,217.01482 LB	21,289.97393 LB	
ROG	6000 LB	58,488.50630 LB	21,230.86259 LB	58.32655 LB
AMMONIA (s)	4097 LB	616,603.97238 LB	602,516.16345 LB	
PHENOL (fs)	4528 LB	58,215.06830 LB	26,487.85608 LB	

-2009 SUMMARY-	--2009--	--2009--	--2009--	--2009--
--POLLUTANT--	--NR438_THRESH--	--UNCNTRLD/YR--	--CNTRLD/YR--	--OZONE/DY--
NOX	10000 LB	10,460.02600 LB	10,460.02600 LB	35.53138 LB
PM	10000 LB	1,001,244.80114 LB	18,128.05244 LB	
PM10	10000 LB	483,170.12096 LB	15,709.63124 LB	
ROG	6000 LB	43,074.83738 LB	15,681.94177 LB	53.26958 LB
AMMONIA(S)	4097 LB	471,728.08754 LB	461,370.32359 LB	
PHENOL(FS)	4528 LB	42,801.39938 LB	19,474.63671 LB	

REPORT LEGEND

--EMISSIONS--

c = Calculated; r = Reported

f = Federal Hap; s = State Hap; fs = Fed and State Hap